

KV4.0 – The digital data hub for combined transport

The new TSI Telematics: Impacts on intermodal transport

Frankfurt, 12.12.2024







The complexity of intermodal supply chains is one of the biggest competitive disadvantages of combined transport compared to continuous road freight transport



Many electronic data interfaces (Terminals, LSP, RU, etc.)

Elaborated organization of intermodal transports

Digital standalone solutions of the parties involved



Complex end-to-end information chain

Objectives



Common data hub for the exchange of timetable, bookings and shipment status data



Consolidation of all data within the intermodal supply chain

Real-time data

Harmonization of the electronic interfaces



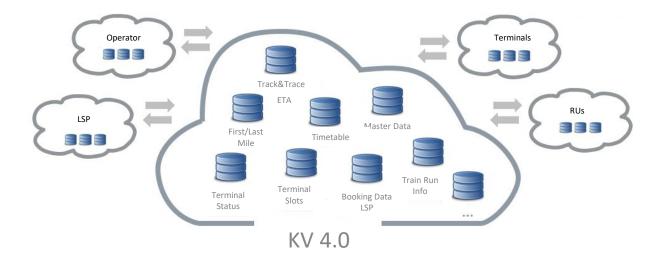
Data available and usable for all parties involved

Supply chain transparency

KV4.0 Data Hub



- > The KV4.0 Data Hub is the result of a Project implemented successfully in 2017-2020 and financed by German Ministry of transport
- > The KV4.0 Data Hub is an integrated data hub increasing transparency across the entire intermodal transport chain
- > All participating partners will provide the relevant order and transportrelated information based on standard XML EDIGES format)



KV4.0 Project Partners



Logistic Service Providers







Bertschi AG, Dürrenäsch

Intermodal Operators





Railway Undertaking







Intermodal Terminals





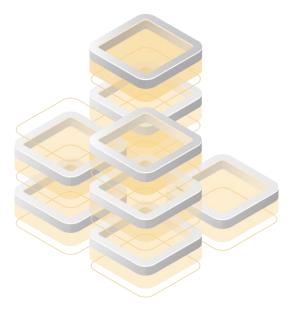




What is the KV4.0 Data Hub?



- No platform (Web View) but an electronic data hub
- Central distributor for all messages of the intermodal supply chain
- Communication with the hub via standard REST API (URL, user, password and token)
- PUSH procedure for delivering data to the hub
- PULL procedure for collecting messages from the hub
- Uniform XML standard for data exchange: EDIGES 4.1
- Validation rules for conformity with the current EDIGES format
- Only the sender determines the respective recipients of the data
- No storage of data on the hub



Main benefits for the CT shareholders

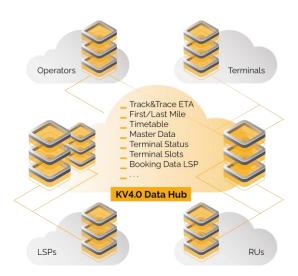


Main Benefits

- Data transparency from the booking to the collection of the loading unit
- Transport units booked through a single interface for the LSP
- Optimized forecast data (ETA and ETP) in the event of irregularities
- Up-to-date timetable data of all connected operators
- Planning of the terminal slots is improved by the timely knowledge of planned shipment
- Improved allocation of truck arrivals and departures in the terminal

Main Characteristics

- Single point for access to transport-relevant data of combined transport
- Optimized data exchanges costs thanks to a single interface
- Easy access via standardized interfaces with EDIGES
- Modern cloud-based solution



Current status of DXI activities





THESE EDIGES MESSAGES ARE PROVIDED BY KOMBIVERKEHR

- Foundation of the company DX
 Intermodal GmbH (October 2022)
- Completion of the KV4.0 Data Hub productive version (February 2023)
- Already more than 25 commercial users (since March 2023)



TERMINALS & RAILWAY UNDERTAKINGS OT TM Operational Terminal timetable master data S23/24 ND Network Wagon in/out disruption train composition S25/26 **S32** Unit loaded Consignment unloaded note **S80** Terminal slot

Thank You

Christoph Büchner

Geschäftsführer Managing Director



DX Intermodal GmbH

Zum Laurenburger Hof 76 60594 Frankfurt am Main Fon +49 69 79505-144 Mobile +49 151 16163662 cbuechner@dx-intermodal.com

www.dx-intermodel.com

